

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

JUNE 7, 1993

NOTE

SUBJECT: Analysis of Remedial Waste Volume and Remedy Selection

FROM: Sylvia K. Lowrance  
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In response to a request you made last winter at a briefing on the Corrective Action Regulatory Impact Analysis, OSW has completed additional analysis of the remedies and resulting waste volumes and the parallels to presumptive remedies. We placed solid waste management unit (SWMU) remedial waste volumes into several categories depending on the remedial management methods: containment (no treatment), in-situ treatment, and ex-situ treatment. Of the approximately 140 million cubic meters of remedial waste expected over the life of the RCRA program, we estimate that roughly 75 percent (105 million m<sup>3</sup>) will be treated in-situ or contained and roughly 25 percent (36 million m<sup>3</sup>) will be excavated and treated.

OSW then compared the management method expected to the remedial waste volume of each SWMU. For waste volumes of less than 100,000 m<sup>3</sup>, we expect no clear pattern in management method by volume. Treatment will be used for volumes between 100,000 m<sup>3</sup> and 1,000,000 m<sup>3</sup>; however, it is likely that this will be predominantly in-situ treatment. With regard to your presumptive remedy initiative, OSW found in the RIA work that all volumes greater than 1,000,000 m<sup>3</sup> will be handled with containment remedies. Exhibits 1 and 2 of Attachment A disaggregate the frequencies by remedial waste volume for in-situ versus ex-situ management, and treatment versus containment.

Should you have any questions or concerns regarding the remedy selection process for corrective action sites, please feel free to contact me or Barnes Johnson (260-2791) on my staff.

## Attachment A

Exhibit 1: In-Situ versus Ex-Site Management  
(By Remedial Waste Volume m<sup>3</sup>)  
N= 13,000

Exhibit 2: Treatment versus Containment  
(By Remedial Waste Volume m<sup>3</sup>)  
N=13,000

Remedial Waste (m <sup>3</sup> )	Weighted Number of SWMUs		
	In-Situ	Ex-Situ	Total SWMUs
< 10	670	140	820
10 to 100	1,900	650	2,500
100 to 1,000	2,000	1,100	3,000
1,000 to 10,000	3,100	1,100	4,200
101000 to 100,000	1,300	1,000	2,300
100,000 to 1,000,000	190	10	200
> 1,000,000	7	0	7

  

Remedial Waste (m <sup>3</sup> )	Weighted Number of SWMUs		
	Treatment	Containment	Total SWMUs
<10	180	640	820
10 to 100	990	1,500	2,500
100 to 1,000	1,800	1,300	3,000
1,000 to 10,000	2,900	1,300	4,200
10,000 to 100,000	1,100	1,200	2,300
100,000 to 1,000,000	100	95	200
>1,000,000	0	7	7